

A catalogue of the type-specimens of the Scarabaeinae (Scarabaeidae) and the smaller lamellicorn families (Coleoptera) described by G. J. Arrow

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Synopsis

A list is given of all the traceable type-specimens of the species and varieties of Scarabaeidae (Scarabaeinae), Lucanidae, Passalidae, Trogidae, Hybosoridae and Geotrupidae described by G. J. Arrow. The current valid name or generic assignment is given where appropriate. Lectotypes are designated where necessary and where this did not require dissection of the specimens to determine the sex.

Introduction

Gilbert Arrow was well aware of the importance of types and always labelled one specimen (occasionally two) from a series as 'type'. However, the vague or ambiguous nature of his published type designations, when any were made at all, renders most of these 'types', except the uniques, unacceptable as holotypes by today's standards. The remainder of the series, which he called 'co-types', were rarely labelled as such. His normal practice was to label very few, if any, of these additional specimens, whether from the collection of the British Museum (Natural History) or borrowed by him from elsewhere.

In the course of evaluating the type status of Arrow material for routine curation of the collection and for an increasing number of inquiries during the past few years, it was found that the data quoted in his descriptions are rarely comprehensive. The localities given are often a précis of the data labels of the series. Instances have been noted of published data, especially bionomic notes, apparently from oral sources or contemporary correspondence, not appearing on the labels. The name of the 'collector' may be the donor of the collection rather than the actual collector. The number and sex of the specimens are usually omitted. These circumstances, together with the fact that a considerable number of syntypes and paratypes must have been given away or exchanged without record, make it impossible in many cases to be certain that the whole of the series is accounted for. This paper, containing details of the type-material of 266 taxa, is the second of a series (cf. Bacchus, 1974) which will catalogue all the traceable type-specimens of species described by G. J. Arrow. Of the total of about 1800 species described

by Arrow, approximately 760 Scarabaeidae and 650 species of 21 other families remain to be catalogued.

Without access to the collection, museum registers of donations, various journals and lists available only in the museum libraries, and some knowledge of the history of the collection and of the vagaries of Arrow's method, accurate and consistent collation of his type-series is virtually impossible.

All specimens are in the British Museum (Natural History) except where otherwise stated. The original genus of every species is given in parentheses after the specific name, and the current valid name, when it differs from the original, is given at the end of the entry. The number and sex of the original series are given in square brackets whenever possible. The data quoted are not verbatim but have been rationalized for the sake of clarity, brevity and convenience to users. Where possible the present name of the country of origin is used and all available data arranged in a standard form. The museum registration numbers have been omitted as they are of no use without the relevant registers.

The specimens labelled by Arrow as 'types' have, until now, all been regarded as holotypes and all bore the round, red-bordered labels in use in this museum. Where lectotypes are designated they will, except where otherwise stated, be these specimens. Normally when both male and female 'types' were so-labelled by Arrow the male is designated lectotype. In some of the genera included in this catalogue it is not possible to sex accurately the specimens without dissection. In most of these instances lectotypes have not been designated as it is considered that such dissection and subsequent lectotype designation are better left for specialist workers in the future. In the few cases where it was considered expedient to designate lectotypes of unknown sex the reasons for the decision are given in the text.

Every specimen catalogued in this paper will have a round label edged in red (holotype), yellow (paratype), purple (lectotype) or blue (paralectotype or syntype) as appropriate and a label with the name of the taxon written by the cataloguer and with his name printed below.

All cases where Arrow gave details of material in other collections were investigated and much useful information received. Although in some instances the specimens could not be found (and are noted as missing in the catalogue), it is probable that, partly because of Arrow's habit of not labelling many specimens and partly because of the considerable time such searches can take, many of these specimens will eventually be found.

No information is available about material in the Colombo Museum.

Abbreviations

ANIC	Australian National Insect Collection, Canberra.
BMNH	British Museum (Natural History), London.
BPBM	Bernice P. Bishop Museum, Honolulu.
FRI	Forest Research Institute, Dehra Dun.
IP	Institut für Pflanzenschutzforschung, Eberswalde.
IRSNB	Institut Royal des Sciences Naturelles de Belgique, Brussels.
MCSN	Museo Civico di Storia Naturale, Genoa.
MHNH	Muséum National d'Histoire Naturelle, Paris.
MNHU	Museum für Naturkunde der Humboldt Universität, Berlin.
MZUSP	Museu de Zoologia da Universidade de São Paulo, São Paulo.
SMT	Staatliches Museum für Tierkunde, Dresden.
ZSI	Zoological Survey of India, Calcutta.

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Catalogue of the type-specimens described by G. J. Arrow

SCARABAEINAE

abreui (*Onthophagus*), 1931b : 239. LECTOTYPE ♂, INDIA: Betul District, Dharakoh, 2600 ft, 25.iv.1926 (*E. A. d'Abreu*); here designated.

Paralectotypes. INDIA: 1 ♂, same data as lectotype; 1 ♂, 1 ♀, same data as lectotype but 23.iv.1926; 1 ♂, Nagpur District, Pench Valley, Sylari, 1900 ft, 26.iv.1929 (*E. A. d'Abreu*); 1 ♀ Malabar (*Doherty*); 1 [sex unknown], Haldwani, Chakrata, ex dung, 4.v.1930 (*B. M. Bhatia*) (FRI, Dehra Dun).

acuticollis (*Onthophagus*), 1931b : 237. LECTOTYPE ♂, INDIA: Chikkaballapura (*T. V. Campbell*); here designated.

Paralectotypes. INDIA: 1 ♀, Cape Comorin, 1888 (*R. P. Castets*).

[Specimen(s) from Madura (*T. V. Campbell*) missing.]

Current valid name: *Onthophagus amphioxus* Arrow (Arrow, 1933b : 421).

affinis (Arrow) var. *capricornis* (*Liatongus*), see *capricornis*.

affinis (*Oniticellus*), 1908 : 181. LECTOTYPE ♂, BURMA: Tavoy; here designated.

Paralectotypes. INDIA: 1 ♂, Manipur. THAILAND: 2 ♂, 1 ♀, Renong (*Doherty*).

Current valid name: *Liatongus affinis* (Arrow) (Arrow, 1931b : 368).

agaricophilus (*Onthophagus*), 1931b : 333. LECTOTYPE ♂, INDIA: Kumaon, W. Almora Div., vi.1917 (*H. G. C[hampion]*); here designated.

Paralectotypes. INDIA: 1 ♀, same data as lectotype but viii.1917; 1 ♂, same data as lectotype but ix.1920; 1 ♀, Kumaon, C. Almora Div (*H. G. C[hampion]*); 1 ♀, Kumaon, Ranikhet Div, on *Agaric*, vi.1921 (*H. G. C[hampion]*); 1 ♂, Ranikhet, vi-viii.1916 (*H. G. C[hampion]*); 1 [sex unknown], Mussoorie, 600-700 ft, ix.1921 (*Col. Harcourt*) (FRI, Dehra Dun).

amphinasus (*Onthophagus*), 1931b : 195. LECTOTYPE ♂, INDIA: Nilgiri Hills (*H. L. Andrewes*); here designated.

Paralectotypes. INDIA: 1 ♂, 3 ♀, same data as lectotype; 1 ♂, same data as lectotype but 4000 ft, vii.1908; 1 ♀, Nilgiri Hills (*A. K. W. Downing*); 1 [sex unknown], N. Kanara, Talewadi, nr Castle Rock, 3.xi.1916 (*S. Kemp*) (ZSI, Calcutta).

andamanus (*Paraphytus*), 1931b : 419. Holotype ('probably a ♂'), ANDAMAN ISLANDS (*Roepstorff*).

andrewesi (*Onthophagus*), 1931b : 324. LECTOTYPE ♂, INDIA: Nilgiri Hills (*A. K. W. Downing*); here designated.

Paralectotypes. INDIA: 3 ♂, 1 ♀, Nilgiri Hills (*H. L. Andrewes*); 4 ♂, 1 ♀, Kanara; 3 ♂, 2 ♀, Madras, Anamalai Hills, 2400 ft, 6.v.1930 (*J. C. M. Gardner*).

angolensis (*Coptorrhina*), 1906 : 129. LECTOTYPE ♂, ANGOLA; here designated.

Paralectotypes. ANGOLA: 2 ♂.

[Arrow's '♀' was the small male here designated as a paralectotype. The orange labels on all the specimens refer to the register entry 1876-28 where the rest of the data can be found.]

angusticornis (*Copris*), 1933b : 427. Holotype ♂, VIETNAM: Tonkin, Chapa, 25.iv.1918 (*Jeanvoine*).

antillarum (*Onthophagus*), 1903 : 510. LECTOTYPE ♂, ST VINCENT: windward side (*H. H. Smith*); here designated.

Paralectotypes. ST VINCENT: 2 ♂, 2 ♀ (*H. H. Smith*); 1 ♀, South End (*H. H. Smith*). GRENADA: 1 ♀, windward side, Mount Gay Estate (*H. H. Smith*); 1 ♀, windward side, Balthazar (*H. H. Smith*); 1 ♀, no other data.

araneolus (*Sisyphus*), 1927a : 464 [original series: 2 ♂]. LECTOTYPE ♂, INDIA: Nilgiri Hills, Gudalur, v.1930 (*E. E. Green*); here designated.

Paralectotype. INDIA: 1 ♂ same data as lectotype.

arboreus (*Onthophagus*), 1931b : 225. LECTOTYPE ♂, INDIA: Bihar, Pusa, on grass, 28.vii.1922 (*Ram*[rest illegible]); here designated.

Paralectotypes. INDIA: 1 ♀, Bihar, Pusa, 14.ix.1912 (*R.M.P.*); 1 ♂, Dehra Dun, New Forest, 27.ii.1929, on sand (*J. C. M. Gardner*).

[Specimens from INDIA: Sagar, xi; Pusa, viii, missing.]

argentinum (*Pedarium*), 1913a : 459. Syntypes, ARGENTINA: 4 ex., Rio Salado, Gran Chaco (*E. Wagner*); 3 ex., Rio Salado, Icano (*E. Wagner*).

assamensis (*Panelus*), 1907c : 417 [original series: 3]. Syntypes, INDIA: 2 ex., Assam, Patkai Mts (*Doherty*); 1 ex., Assam, Sudiya (*Doherty*).

- aviculus (Onthophagus)*, 1931b : 179. LECTOTYPE ♂, INDIA: Bengal, Darjeeling, Singla, 1500 ft, vi; here designated.
 Paralectotypes. INDIA: 4 ♂, 4 ♀ (BMNH, London), 1 [sex unknown] (ZSI, Calcutta), same data as lectotype; 1 ♀, Darjeeling, Tukvar (*E. A. Moller*). BURMA: 3 ♂, 2 ♀, Putao Dist., Sumparbum, vi–vii (*Mrs B. Fischer*).
 [Specimen(s) Darjeeling, Tinta Valley, 700 ft, ix (*J. C. M. Gardner*) missing.]
 Current valid name: *Onthophagus anguliceps* Boucomont (Arrow, 1933b : 421).
- avocetta (Onthophagus)*, 1933b : 421 [proposed by Arrow as replacement name for *Onthophagus anguliceps* Boucomont sensu Arrow (1931b : 178)]. LECTOTYPE ♂, INDIA: Assam, Garo Hills above Tura, 3500 ft, 15.vii–30.viii.1917 (*S. Kemp*); here designated.
 Paralectotypes. INDIA: 3 ♀, same data as lectotype; 1 [sex unknown], same data as lectotype but ix.1917 (*Mrs Kemp*). BURMA: 1 ♂, Karen Hills, Cheba, 900–1100 m, v–xii.1888 (*L. Fea*).
- beesoni (Onthophagus)*, 1931b : 319. LECTOTYPE ♂, INDIA: Kumaon, Haldwani Dist. (*H. G. Champion*); here designated.
 Paralectotypes. INDIA: 2 ♂ (BMNH, London); 1 [sex unknown] (FRI, Dehra Dun); 2 ♂ Jhaira Range, Dehra Dun, 6.xi.1924 (*C. F. C. Beeson*); 1 ♂, Jhaira, Dehra Dun, ex dung, 14.ii.1929 (*J. C. M. Gardner*).
 [Specimen(s) from INDIA: Bengal, Buxar Duars, v (*D. Nowrojee*) missing.]
- biharensis, Gymnopleurus*, 1931b : 62. LECTOTYPE ♂, INDIA: Chapra (*Mackenzie*); here designated.
 Paralectotypes. INDIA: 1 ♂, 2 ♀, same data as lectotype; 1 ♂, Bengal, Chapra.
 [Specimens in the Pusa collection (now Indian Agricultural Research Institute, New Delhi) missing.]
- bisectus, (Onthophagus)*, 1931b : 201. LECTOTYPE ♂, INDIA: S. India; here designated.
 Paralectotypes. INDIA: 1 ♀, same data as lectotype; 1 ♂, Malabar; 2 ♂, 3 ♀, Nilgiri Hills (*A. K. W. Downing*).
 [Specimen(s) from INDIA: Snowdon Peak, 8000 ft, ix (*Y. R. Rao*) missing.]
- bombayensis (Gymnopleurus)*, 1931b : 65 [original series: 6]. LECTOTYPE ♂, no locality label, presented by Walter Elliot Esq.; here designated.
 Paralectotypes. 1 ♂, same data as lectotype; 1 ♂, 'Quetta Museum'. PAKISTAN: 1 ♀, Baluchistan, 500–800 ft, 26.vii–6.viii.1929 (*J. W. Evans*). INDIA: 1 ♀, Belgaum, Bombay; 1 ♀, Ind. Cent.
- brachialis (Uroxys)*, 1933a : 393. Holotype ♂, COLUMBIA: Pichinde, 5000 ft, xi.1891 (*W. Rosenberg*).
- brevicollis (Onthophagus)*, 1907c : 422. LECTOTYPE ♂, INDIA: Nilgiri Hills; here designated.
 Paralectotypes. INDIA: 1 ♂, 1 ♀, same data as lectotype; 1 ♂, 1 ♀, same data as lectotype but (*G. F. Hampson*); 2 ♂, 2 ♀, same data as lectotype but (*H. L. Andrewes*); 1 ♂, Belgaum, Bombay; 1 ♀, Malabar; 1 ♀, South India.
- bronzeus (Onthophagus)*, 1907c : 429. LECTOTYPE ♂, INDIA: S. India; here designated.
 Paralectotypes. INDIA: 1 ♀, Nilgiri Hills (*G. F. Hampson*); 1 ♀, S. India, Kanara; 1 ♀, Malabar.
- brutus (Onthophagus)*, 1931b : 215. LECTOTYPE ♂, INDIA: Bengal, Sarda (*F. W. C[hampion]*).
 Paralectotype. BURMA: 1 ♀, Carin Cheba, 900–1100 m, v–xii.1888 (*L. Fea*).
- bucki (Zonocopriss)*, 1932 : 223. Syntypes, BRAZIL: 1 ex., Porto Alegre, Rio Grande do Sul, x.1931 (*P. Buck*); 1 ex., as previous but iv.1931; 6, as previous but dates unknown (MZUSP, São Paulo).
 [Although Arrow does not give the precise number of specimens seen by him he does note that there were many examples and that 12 specimens were found inside one snail shell.]
- buffalo (Onthophagus)*, 1907c : 437. LECTOTYPE ♂, JAVA: here designated.
 Paralectotypes. 1 ♂, 4 ♀, same data as lectotype. BORNEO: 1 ♀, Labuan; 1 ♂, 1 ♀, Borneo [rest of label illegible].
- bufo (Onthophagus)*, 1907c : 420. LECTOTYPE ♂, PAKISTAN: Bannu (*Dr Pennell*); here designated.
 Paralectotypes. PAKISTAN: 6 ♂, 6 ♀, same data as lectotype; 1 ♂, 2 ♀, same data as lectotype but no collector. INDIA: 1 ♀, Gwalior.
- bufulus (Onthophagus)*, 1941 : 51. Holotype ♂, NEW GUINEA: Papua, Mafulu, 4000 ft, i.1934 (*L. E. Cheesman*).
- calcaratus (Pinotus)*, 1913a : 457. Holotype ♂, BRAZIL: Rio Madeira, Madeira-Mamore R[ail] R[oad] Co., Camp 41 (*Mann & Baker*).
- callosipes (Sisyphus)*, 1909a : 517. LECTOTYPE ♂, MOZAMBIQUE: Nyassa (*Simons*); here designated
 [Arrow gives this locality as British Central Africa, Nyassaland (Malawi), apparently not realizing that part of L. Nyasa is, in fact, in Mozambique].

Paralectotypes. MOZAMBIQUE: 1 ♂, same data as lectotype; 1 ♂, 1 ♀, 'Nyassa' [it is not possible to assign these specimens to the Mozambique or the Malawi part of 'Nyassa']. RHODESIA: 1 ♀, Mashonaland, Mt Chirinda, xi.1901 (*G. A. K. Marshall*). TANZANIA: 1 ♂, Massai (sic). ZAIRE: 1 ♂, 1 ♀, 150–200 mls W. of Kambove, 3500–4500 ft, 18.x.1907.

cancer (*Mnematum*), 1919 : 434. Holotype ♂, no locality label, Nevinson Collection.

capricornis (*Liatongus affinis* (Arrow) var.), 1911b : 368 [original series: 4 ♂, unspecified number of ♀]. LECTOTYPE ♂, BURMA: Pegu, Palon, viii–x.1887 (*L. Fea*); here designated.

Paralectotype. BURMA: 1 ♂, Tharawaddy (*G. Q. Corbett*).

Current valid name: *Liatongus capricornis* Arrow (Janssens, 1953, *Explor. Parc natn. Upemba Miss. G. F. de Witte* 11 : 96).

caucanus (*Uroxys*), 1933a : 394. LECTOTYPE ♂, COLOMBIA: Cauca; here designated.

Paralectotypes. COLOMBIA: 1 ♂, 2 ♀, same data as lectotype.

cheesmanae (*Onthophagus*), 1941 : 52. LECTOTYPE ♂, NEW GUINEA: Papua, Kokoda, 1300 ft, ix.1933 (*L. E. Cheesman*); here designated.

chrysurus (*Onthophagus*), 1931b : 211. LECTOTYPE ♂, INDIA: Chachar, Haflong, 15.v.1925 (*G. D. Bhasin*); here designated.

[This specimen has been designated lectotype because it is uncertain that it is unique.]

cingalense (*Phacocosma*) 1931b : 357. Holotype [sex unknown], SRI LANKA: Ohiya, 6500 ft, 9.iv.1928.

circulifer (*Onthophagus*), 1931b : 274. LECTOTYPE ♂, INDIA: Dehra Dun, 7.vii.1925 (*C. F. C. Beeson*); here designated.

Paralectotypes. INDIA: 1 ♀, Darj[ee]ling, Soom, 400–500 ft, 8.vii.1914; 1 ♂, Bengal, Darjeeling, Singla, 1500 ft, vi; 1 ♀, Siwalik Hills, Mohand Rau, 23.ix.1921 (*Dr Cameron*); 1 ♀, Jammu Prov, Chenab V, Ramban, 2600 ft, 8.v.1928 (*C. F. C. Beeson*); 4 ♂, 2 ♀, Sikkim, Pedong, 6000 ft, 28.iii.1924 (*Maj. R. W. G. Hingston*). BURMA: 1 ♀ (BMNH, London); ? number and sex (FRI, Dehra Dun); Chittagong H[ill] T[racts], Sitaphar R, 5–10.v.1925 (*C. F. C. Beeson*).

In FRI, Dehra Dun, there are also specimens of unknown number and sex from INDIA: Assam, Shillong (*C. F. C. Beeson*); Jhaira Range, Dehra Dun, 6.xi.1925 (*C. F. C. Beeson*).

[Specimens from INDIA: Khinsi Hills, Nagpur, 1500 ft, ix (*E. A. d'Abreu*); Darjeeling District, Lord Carmichael's collector, missing.]

coeruleicollis (*Onthophagus*), 1907c : 430. LECTOTYPE ♀, INDIA: Dhawar; here designated.

Paralectotypes. INDIA: 1 ♂, 1 ♀, Belgaum, Bombay; 1 ♀, India.

coorgensis (*Onthophagus*), 1931b : 202. LECTOTYPE ♂, INDIA: Nilgiri Hills (*H. L. Andrewes*); here designated.

Paralectotypes. INDIA: 5 ♂, 8 ♀, same data as lectotype.

[Specimen(s) from INDIA: Malabar Dist., Sappal, Palghat, 1700 ft, v (*J. C. M. Gardner*) missing.]

cristatum (*Trichillum*), 1931a : 610 ['taken in considerable numbers by Dr. O'haus']. Syntypes, ECUADOR: 1 ex., Mahader Stadt, Loja, 2200 m (*F. O'Haus*); 1 ex., Loja, 1.x.1905 (*F. O'Haus*); 1 ex., Piscobamba (*F. Witt*).

cryptops (*Pedarium*), 1913a : 458. Syntypes, BRAZIL: 2 ex., Goyaz Prov, Jatahy; 1 ex., Natal (*W. M. Mann*).

[One specimen, BRAZIL: Natal (*W. M. Mann*) missing.]

capreiceps (*Onthophagus*), 1907c : 427. LECTOTYPE ♂, INDIA: Sikkim, Teesta Valley, Tungu, 1300–1400 ft, 1–15.vii.1903; here designated.

Paralectotypes. INDIA: 1 ♂, 3 ♀, same data as lectotype; 1 ♂, 2 ♀, Khamba Jong, 1500–1600 ft, 15–30.vii.1903.

digitatus (*Onthophagus*), 1931b : 177. LECTOTYPE ♂, INDIA: 'Ind. bor.'; here designated.

Paralectotypes. INDIA: 1 ♀, same data as lectotype; 1 ♂, Sikkim (MNHN, Paris).

draco (*Copris*), 1906 : 127. LECTOTYPE ♂, ANGOLA: Bihe; here designated.

Paralectotypes. ANGOLA: 2 ♀, same data as lectotype.

delicatus (*Copris*), 1931b : 117 [original series: 2]. LECTOTYPE ♂, INDIA: Mishmi Hills, 28°5' N, 96°15' E, 2000 ft, 12.iii.1928; here designated.

Paralectotype. INDIA: 1 ♀, Bengal, Darjeeling, Lopchu, 5000 ft, 24.ix.1929 (*J. C. M. Gardner*).

dynastoides (*Onthophagus*), 1931b : 182. Holotype ♂, INDIA: 'Ind. bor.'

egregius (*Onthophagus*), 1907c : 438. LECTOTYPE ♂, BORNEO: Pontianak, 1893; here designated.

Paralectotypes. BORNEO: 1 ♂, 1 ♀ [not ♂] (BMNH, London), 1 ♀ [not ♂] (MNHN, Paris), same data as lectotype but 1898; 1 ♀ [not ♂] (BMNH, London), 1 ♀ [not ♂] (MNHN, Paris), same data as lectotype but 1900; 1 ♀ (BMNH, London), 1 ♀ (MNHN, Paris) [both described by Arrow as the female of *egregius*], same data as lectotype but 1898.

[The specimens described by Arrow as the female of *Onthophagus egregius* are *Onthophagus aurifex* Harold (Balthasar, 1963, *Monographie der Scarabaeidae und Aphodiidae der Palaearktischen und Orientalischen Region* 2 : 340).]

elongatus (*Gyronotus*), 1933b : 429. LECTOTYPE ♂, SOUTH AFRICA: Natal, N. Zululand; here designated.

Paralectotypes. SOUTH AFRICA: 1 ♂, 2 ♀, same data as lectotype.

Current valid name: *Gyronotus dispar* Felsche (Janssens, 1938, *Expl. Parc natn. Albert Miss. G. F. de Witte* 21 : 16).

ephippiatus (*Deronitis*), 1933b : 422. Holotype ♂, UGANDA: Kasinga Channel, Katunguru, 1931 (*Dr E. B. Worthington*).

ephippioderus (*Onthophagus*), 1907c : 425. LECTOTYPE ♂, INDIA: Bangalore; here designated.

Paralectotypes. INDIA: 5 ♂, 6 ♀, same data as lectotype; 5 ♂, 3 ♀, Mysore; 2 ♂, Nilgiri Hills (*G. F. Hampson*); 4 ♂, 9 ♀, Nilgiri Hills; 1 ♂, 1 ♀, Belgaum, Bombay; 1 ♂, 1 ♀, Belgaum; 2 ♂, 3 ♀, Kanara.

excavatus (*Onitis*), 1931b : 390. LECTOTYPE ♂, BURMA: Tenasserim; here designated.

exquisitus (*Onthophagus*), 1931b : 225. LECTOTYPE ♂, INDIA: Dehra Dun, 14.vii.1922 (*S. N. Chatterjee*); here designated.

Paralectotype. INDIA: Bengal, Darjeeling, Singla, vi.

felix (*Canthon*), 1913a : 456. LECTOTYPE ♂, BRAZIL: Santarem; here designated.

Paralectotypes. BRAZIL: 1 ♀, same data as lectotype; 1 ♂, 3 ♀, Pernambuco (*A. Fry*); 1 ♂, Para; 1 ♂, Ceara, Baturite Mts (*W. M. Mann*).

[Specimens from BRAZIL: Rio de Janeiro; Ceara, Maranguape Mts missing.]

felix (*Onthophagus*), 1931b : 257. Holotype ♂, INDIA: Chota Nagpur, Nowatoli, x.1897 (*R. P. Cardon*).

Paratypes. INDIA: 4 ♀, same data as holotype.

fossor (*Onthophagus*), 1931b : 300. Holotype ♂, INDIA: Sikkim, Tsuntang, 6000 ft, 24.iv.1924 (*Maj. R. W. G. Hingston*).

Paratypes. INDIA: 1 ♂ 3 ♀, same data as holotype.

frugivorus (*Onthophagus*), 1931b : 336. LECTOTYPE ♂, INDIA: Assam, Garo Hills above Tura, 3500–3900 ft, 15.vii–30.viii.1917 (*S. Kemp*); here designated.

Paralectotypes. INDIA: 1 ♀, same data as lectotype; 4 [sex unknown], same data as lectotype but 15–25.vii.1917, in rotten fruit (ZSI, Calcutta); 1 ♀, same data as lectotype but 3900 ft, 15.vii–15.viii.1917; 2 ♂, 1 ♀, as previous but in rotten fruit.

fulgens (*Pedarius*), 1913a : 458 [original series: 2]. Syntypes, ARGENTINA: 2 ex., Gran Chaco, Rio Salado (*E. Wagner*).

furcicollis (*Onthophagus*), 1931b : 276. LECTOTYPE ♂, INDIA: Gopaldhara, Darjeeling, 3440–4720 ft, 19.ix.1916, on ground (*H. Stevens*); here designated.

Paralectotype. INDIA: 1 ex., Dehra Dun, Nun Nadi, ex carrion, 17.vii.1921 (*Dr Cameron*).

gallinus (*Caccobius*), 1907c : 424. LECTOTYPE ♂, INDIA: Nilgiri Hills (*H. L. Andrewes*); here designated.

Paralectotypes. INDIA: 16 ♂, 17 ♀, same data as lectotype; 1 ♀, same data as lectotype but 600 ft; 7 ♂, 10 ♀, Nilgiri Hills; 1 ♀, Belgaum; 2 ♀, Belgaum, Bombay.

gazanus (*Onitis*), 1909a : 519. LECTOTYPE ♂, RHODESIA: Mashonaland, Chirinda Forest, x.1908 (*G. A. K. Marshall*); here designated.

Paralectotypes. RHODESIA: 7 ♂, 4 ♀, same data as lectotype.

[By modern definition, Chirinda Forest is not in Mashonaland. It is 110 miles south of Umtali.]

gazanus (*Sisyphus*), 1909a : 518. LECTOTYPE ♂, RHODESIA: Mashonaland, Chirinda, x.1905 (*G. A. K. Marshall*); here designated.

Paralectotypes. RHODESIA: 1 ♂, Mashonaland, Mt Chirinda, xi–xii.1901 (*G. A. K. Marshall*); 1 ♂, as previous but xii.1905; 1 ♀, Gazaland, Chirinda, xii.1901 (*G. A. K. Marshall*). MOZAMBIQUE: 2 ♂, Lower Buzi River, Chibababa, xii.1906 (*C. F. M. Swynnerton*).

[The female paralectotype was re-determined as *Sisyphus ocellatus* Reiche by E. Haaf. There is some evidence that the words 'co-type' have been cut from the bottom of Arrow's determination label.]

- geminatus* (*Pinotus*), 1913a : 457 [original series: 2]. LECTOTYPE ♂, BRAZIL: Natal (*W. M. Mann*); here designated.
- gileti* (*Pseudopedaria*), 1933b : 424. LECTOTYPE ♂, RHODESIA: Kashitu, N. of Broken Hill, ii.1915 (*H. C. Dollman*); here designated.
Paralectotypes. RHODESIA: 2 ♀, same data as lectotype but xii.1914; 4 ♀, same data as lectotype but i.1915; 1 ♀, same data as lectotype but iv.1915. TANZANIA: 2 ♀.
- gileti* (*Synopsis*), 1931b : 83. LECTOTYPE ♀, INDIA: Bengal, Darjeeling, Singla, 1500 ft, vi; here designated.
Paralectotype. INDIA: 1 ♂ (IRSNB, Brussels).
- gladiator* (*Copris*), 1933b : 425. Holotype ♂, BURMA: Adung Valley, 6000 ft, 11.v.1931 (*Lord Cranbrook*).
- gladiator* (*Onthophagus*), 1907c : 418 [original series: 2]. LECTOTYPE ♂, INDIA: here designated.
Paralectotype. INDIA: 1 ♂, same data as lectotype.
- gladiator* (*Sisypus*), 1927a : 462. LECTOTYPE ♂, CAMEROUN: Ngpward; here designated.
Paralectotypes. CAMEROUN: 4 ♂, 4 ♀, same data as lectotype; 1 ♀, Tazada.
[Specimen(s) from CAMEROUN: Betare missing.]
- globosus* (*Parachorius*), 1931b : 360. Holotype ♀ ?, INDIA: Darjeeling, 5000 ft, 14.iii.1924 (*Maj. R. W. G. Hingston*).
- gorgon* (*Uroxys*), 1933a : 397 [original series: 'more than a dozen']. LECTOTYPE ♂, COLOMBIA: Gorgona Island, in hair of three-toed sloth, 3.vii.1924; here designated.
Paralectotypes. COLOMBIA: 2 ♂, 6 ♀, same data as lectotype; 1 ♀, same data as lectotype but (*H. J. K.*).
- gratus* (*Onthophagus*), 1931b : 212. LECTOTYPE ♂, INDIA: 'Ind. bor.'; here designated.
Paralectotypes. INDIA: 1 ♀ (BMNH, London), 1 [sex unknown], (ZSI, Calcutta), Ranchi (*W. H. Irvine*); 1 ♂, Ranchi.
- griseosetosus* (*Onthophagus*), 1931b : 192. LECTOTYPE ♂, INDIA: South Mysore (*H. L. Andrewes*); here designated.
Paralectotypes. INDIA: 1 ♂, 2 ♀, same data as lectotype; 2 ♂, Nilgiri Hills (*H. L. Andrewes*); 1 ♂, Kanara; 1 ♂, C[entral] P[rovince], Raigarh R., vii.1927 (*C. F. C. Beeson*).
[Specimen(s) from INDIA: Dehra Dun, vi, missing.]
- gulo* (*Onthophagus*), 1931b : 164. LECTOTYPE ♂, INDIA: Bombay; here designated.
Paralectotypes. INDIA: 2 ♀, same data as lectotype; 1 ♀, Nagpur (*E. A. D'Abreu*); 1 ♀, Buldana, Purna R, Sagoda, 21.viii.1929 (*N. C. Chatterjee*); 1 ♀, as previous but 7.ix.1929; 1 ♀, as previous but 8.iii.1930; 6 [sex unknown], as previous but 26.vi.1929 [FRI, Dehra Dun]; 1 [sex unknown], as previous but 4-13.x.1921 [FRI, Dehra Dun].
The dates of the paralectotypes in FRI, Dehra Dun, were not listed by Arrow although they are labelled 'Cotypes' and are from the same series as the specimens from the same locality in the BMNH, London. The dates quoted by Arrow are only those of the BMNH specimens and the omission of the data of the FRI specimens is considered to be an accident caused by Arrow's habit of reducing data to an absolute minimum.
- hamaticeps* (*Onthophagus*), 1931b : 308. LECTOTYPE ♂, INDIA: Siwaliks [hills], Dehra Dun, 24.ix.1922 (*Dr Cameron*); here designated.
Paralectotype. INDIA: 1 ♂, Jhaira Range, Dehra Dun, 6.xi.1924 (*C. F. C. Beeson*).
- hindu* (*Onthophagus*), 1931b : 289. LECTOTYPE ♂, INDIA: 'India Orient.'; here designated.
Paralectotypes. INDIA: 5 ♀, same data as lectotype. PAKISTAN: 1 ♂, Bannu (*Dr. Pennell*).
[Specimens from INDIA: Nagpur, 1000 ft, viii & ix (*E. A. D'Abreu*) and Bellary Dist., Yemmiganur, viii, missing.]
- hindu* (*Paraphytus*), 1913b : 193. Holotype ♂, INDIA: Khasia Hills, vii.1894.
Paratypes. INDIA: 2 ♂, same data as holotype; 2 ♀, Upper Rotung, under bark, 6.i.1912 (*Kemp*).
[1 ♂, same data as previous, missing.]
- hingstoni* (*Onthophagus*), 1931b : 278. LECTOTYPE ♂, INDIA: Sikkim, Lachen, 9000 ft, 26.iv.1924 (*Maj. R. W. G. Hingston*); here designated.
Paralectotypes. INDIA: 1 ♂, same data as lectotype but 8000 ft, 24.iv.1924; 2 ♀, same data as lectotype but 10 000 ft, 25.iv.1924.
[Specimen(s) INDIA: Sikkim, Tsuntang, 7000 ft (*Maj. R. W. G. Hingston*) missing.]
- histeroides* (*Uroxys*), 1933a : 392. LECTOTYPE ♂, PARAGUAY: here designated. Paralectotypes. PARAGUAY: 2 ♀.

- hookeri* (*Parachorius*), 1931b : 359. Holotype ♀ ?, INDIA: N. India.
- humeralis* (*Cassolus*), 1907c : 416. LECTOTYPE ♂, INDIA: Assam, Sudiya (*Doherty*); here designated.
Paralectotypes. INDIA: 1 ♂, 2 ♀, Patkai Mts (*Doherty*); 2 ♀, Valley (*Doherty*).
[One paralectotype, INDIA: Patkai Mts (*Doherty*) lost, empty mount in BMNH, London.]
- hystrix* (*Trichillum*), 1931a : 609. Syntypes, ARGENTINA: 2 ex., Santa Fé, Rio San Janvier, Estancia la Noria, xii.1911 (*G. E. Bryant*); 1 ex., as previous but 14.xii.1911; 1 ex., as previous but 20.xii.1911; 1 ex., as previous but 23.xii.1911; 1 ex., as previous but 24.xii.1911; 1 ex., as previous but 27.xii.1911; 1 ex., as previous but 3.i.1912.
- indicus* (*Oniticellus*), 1908 : 180. LECTOTYPE ♂, INDIA: Nilgiri Hills; here designated.
Paralectotypes. INDIA: 3 ♂, 1 ♀, same data as lectotype; 1 ♂, S. India; 1 ♂, 1 ♀, Anamalais; 1 ♀, Anamalai Hills; 2 ♂, 3 ♀, Malabar.
Current valid name: *Chironitis arrowi* Janssens (Janssens, 1937, *Mém. Mus. r. Hist. nat. Belg.* (2) 11 : 159).
- inermis* (*Caccobius*), 1931b : 147. LECTOTYPE ♂, INDIA: Fyzabad (*R. W. G. Hingston*); here designated.
Paralectotypes. INDIA: 1 ♂, Nagpur (*E. A. D'Abreu*); 2 ♂, W. Almora, Kumaon (*H. G. C[hampion]*); 1 ♀, Calcutta; 1 ♀, Sikkim, Pedong, 6000 ft, 28.iii.1924 (*R. W. G. Hingston*). SRI LANKA: 1 ♂, Wirawila, 28.vii.1921.
- iyengari* (*Onthophagus*), 1931b : 323. Holotype ♂, INDIA: Bengal, Rungpur, xi.1924 (*M. O. T. Iyengar*); here designated.
Paratypes. INDIA: 1 ♂, 2 ♀, same data as holotype.
- jucundus* (*Onthophagus*), 1931b : 188. LECTOTYPE ♂, INDIA: Assam, Manipur (*Doherty*); here designated.
Paralectotype. BURMA: 1 ♀, Momeit [not Momeik] (*Doherty*).
- kanarensis* (*Onthophagus*), 1931b : 191. LECTOTYPE ♂, INDIA: N. Kanara Dist., Talewadi, nr Castle Rock, 3–10.x.1916 (*S. Kemp*); here designated.
Paralectotype. INDIA: 1 ♀, Kanara.
- kumaonensis* (*Onthophagus*), 1931b : 272. LECTOTYPE ♂, INDIA: Kumaon, Nainital Div. (*H. G. C[hampion]*); here designated.
Paralectotypes. INDIA: 1 ♂, same data as lectotype; 1 ♀, W. Almora, v–viii.1916 (*H. G. C[hampion]*); 1 ♀, Simla Hills, Theog, 7600 ft, 10.ix.1921 (*S. N. Chatterjee*); 1 ♂, Mussoorie, vii.1926 (*J. C. M. Gardner*); 1 ♀, as previous but vi.1930; 1 ♀, Mussoorie, 6500 ft, 6.vii.1920 (*S. N. Chatterjee*); 1 [sex unknown], Mussoorie, 6000–7000 ft, xi.1921 (*Col. Harcourt*) (FRI, Dehra Dun).
- laborans* (*Onthophagus*), 1931b : 240. LECTOTYPE ♂, INDIA: Nasik, 31.vii.1911 (*N. B. Kinnear*); here designated.
Paralectotypes. INDIA: 2 ♂, 4 ♀, Chikalda Berars, 3664 ft, 2.xii.1913 (*N. B. Kinnear*); 1 ♂, 3 ♀, Dharwar, x.1909 (*H. Swale*); 2 ♀, as previous but xii.1909; 2 ♀, as previous but 17.i.1910.
- laetum* (*Phacosoma*), 1931b : 356. Holotype [sex unknown], INDIA: Nilgiri Hills (*H. L. Andrewes*).
Paratypes. INDIA: 4 [sex unknown], same data as holotype.
- laevis* (*Gymnopleurus*), 1900 : 23. Holotype ♂, SOMALI REPUBLIC: 'Somaliland', 16.iv–7.viii.1895 or 5.vi–29.x.1897 (*C. V. A. Peel*).
Current valid name: *Garreta nitens* (Olivier) (Janssens, 1940, *Mem. Mus. r. Hist. nat. Belg.* (2) 16 : 32).
- laevis* Harold var. *stevensi* (*Onthophagus*), see *stevensi*.
- laoticus* (*Sisyphus*), 1927a : 463. LECTOTYPE ♂, INDO-CHINA: Haut Mekong, Vieng Vien, 24.v.1918 (*R. V. de Salvaza*); here designated.
Paralectotypes. INDO-CHINA: 1 ♂, 2 ♀, same data as lectotype; 1 ♀, Haut Mekong, Vien Vai, 23.v.1918 (*R. V. de Salvaza*).
- lapillus* (*Onthophagus*), 1931b : 267. LECTOTYPE ♂, INDIA, Sikkim, Pedong, 6000 ft, 28.vii.1924 (*Maj. R. W. G. Hingston*); here designated.
Paralectotypes. INDIA: 2 ♀, same data as lectotype; 1 ♂, 1 ♀, Rungbong Valley, Gopadhara (*H. Stevens*); 1 ♀, Dehra Dun, 18.viii.1915; 1 [sex unknown], Dehra Dun, vi.1918 [FRI, Dehra Dun]; 1 [sex unknown], Dehra Dun, under bark 13.viii.1927 (*S. Badahur*) [FRI, Dehra Dun]; 1 ♂, Mussoorie, vii.1926 (*J. C. M. Gardner*); 1 [sex unknown], Mussoorie, Mackinnon Park, under leaves, 29.viii.1929 (*C. F. C. Beeson*) [FRI, Dehra Dun]; 1 [sex unknown], Kumaon, Shamkhet, 15.v.1912 [FRI, Dehra Dun]; 1 ♀, Punjab, Simla Hills, Dagshai, 6000 ft, 13.viii.1921 (*O. H. Walters*); 1 ♀, N. India.

laratinus (*Onthophagus*), 1916 : 494 [original series: 3 ♂, 2 ♀]. Holotype ♂, LARAT I. (Indonesia): (F. Muir); here designated.

Paratypes. LARAT I. (Indonesia): 1 ♂, 1 ♀, same data as lectotype.

latenasutus (*Onthophagus*), 1941 : 50. LECTOTYPE ♂, NEW GUINEA: Papua, Kokoda, 1200 ft, ix.1933 (L. E. Cheesman); here designated.

Paralectotypes. NEW GUINEA: 7 ♂, 7 ♀, same data as lectotype; 1 ♂, D[utch] N[ew] Guinea (*Sattelburg*).

latus (*Uroxys*), 1933a : 396. Holotype ♂, BRAZIL: Petropolis, ii.1857 (*H. Clark*).

lojanus (*Uroxys*), 1933a : 395. LECTOTYPE ♂, ECUADOR: Loja Pucara, 8.viii.1905 (*F. Ohaus*); here designated.

Paralectotypes. ECUADOR: 1 ♀, same data as lectotype but 9.viii.1905; 1 ♀, Loja Clavario, 5.viii.1905 (*F. Ohaus*); 1 ♂, as previous but 1.ix.1905; 3 ♂, 3 ♀, Loja (*F. Ohaus*) (IP, Eberswalde).

madoqua (*Onthophagus*), 1931c : 258. Holotype ♂, INDIA: Nilgiri Hills (*H. L. Andrews*).

Paratypes. INDIA: 2 ♂, 2 ♀, same data as holotype.

manipurensis (*Onthophagus*), 1907b : 426. LECTOTYPE ♂, INDIA: Manipur (*Doherty*); here designated.

Paralectotypes. INDIA: 2 ♂, 2 ♀, same data as lectotype.

manni (*Canthidium*), 1913a : 460. LECTOTYPE ♂, BRAZIL: Ceara (*W. M. Mann*); here designated.

Paralectotype. BRAZIL: 1 ♀, same data as lectotype.

medicus (*Sisyphus*), 1931b : 70. Holotype ♂ ?, INDIA: Madras, Anamalai Hills, 2400 ft, 10.v.1930 (*J. C. M. Gardner*).

metalliceus (*Onthophagus*), 1931b : 218. LECTOTYPE ♂, INDIA: Kanara; here designated.

Paralectotype. INDIA: 1 ♀, same data as lectotype.

minotaurus (*Onthophagus*), 1941 : 53 [original series: 1 ♂, 1 ♀]. Holotype ♂, NEW GUINEA: Papua, Kokoda, 1200 ft, x.1933 (*L. E. Cheesman*).

Paratype. NEW GUINEA: 1 ♀, D[utch] New Guinea, Sattelburg.

mirandus (*Onthophagus*), 1931b : 290. LECTOTYPE ♂, INDIA: W. Almora, Kumaon (*H. G. C[hampion]*); here designated.

Paralectotypes. INDIA: 6 ♂, 2 ♀, same data as lectotype; 1 ♂, 2 ♀, Simla, vi. [not vii] 1909 (*H. Chippendale*).

modestus (*Oniticellus*), 1908 : 182. LECTOTYPE ♂, INDIA: Calicut; here designated.

Paralectotypes. INDIA: 1 ♀ [head and pronotum missing], 7 ♀, same data as lectotype; 1 ♀ Belgaum; 1 ♂, 1 ♀, Belgaum, Bombay; 2 ♂, 2 ♀, Malabar.

morio (*Sisyphus*), 1909b : 93. LECTOTYPE ♂, CHINA: Ai San, 30 mls W. of Chefoo (*M. P. Anderson*); here designated.

Paralectotypes. CHINA: 3 ♀, same data as lectotype; 1 ♀, Shan-hai-Kwan, in mountains, i.1906 (*F. M. Thomson*).

Current valid name; *Sisyphus schaefferi* L. (Haaf, 1955, *Ent. Arb. Mus. Georg. Frey* 6 : 344).

myrmecophilus (*Onthophagus*), 1907c : 431. LECTOTYPE ♂, INDIA: Nilgiri Hills (*H. L. Andrewes*); here designated.

Paralectotypes. INDIA: 4 ♂, 6 ♀, same data as lectotype; 1 ♂, same data as lectotype but 'taken close to nest of *Phidole indica* Mayr whilst I was digging out the nest. Probably lives with the ants'; 6 ♂, 2 ♀, Nilgiri Hills, Barwood Estate, 3500 ft, found with ants in decayed *Ficus* trunk living in galleries of ants (*Phidolegiton* sp., probably *diversus* (Gerdon)), x.1906 (*H. L. Andrewes*).

nagpurensis (*Onthophagus*), 1931b : 342. Holotype ♂, INDIA: Chota Nagpur, x.1897.

Paratypes. INDIA: 2 ♂, 3 ♀, same data as holotype.

nasalis (*Onthophagus*), 1931b : 288. Holotype ♂, INDIA: W. Almora, Kumaon (*H. G. C[hampion]*).

necrophagus (*Onthophagus*), 1931b : 196. LECTOTYPE ♂, INDIA: Dehra Dun, Nun Nadi, ex carrion, 17.vii.1921 (*Dr Cameron*); here designated.

Paralectotypes. INDIA: 1 ♂, 1 ♀, Dehra Dun, Jhajra, Sal leaves, 27–29.vi.1912 (*C. N. Chatterjee*).

nitidicollis (*Oniticellus*), 1908 : 179. Holotype ♂, SARDINIA.

oculatus (*Onthophagus*), 1931b : 168. LECTOTYPE ♂, SRI LANKA: Nilaveli, ix.1914 (*C. F. S. Baker*); here designated.

Paralectotypes. SRI LANKA: 1 ♂, 1 ♀, same data as lectotype. INDIA: 1 ♀, Malabar; 1 ♀, Pondicherry.

- ohausi* (*Trichillum*), 1931a : 610 [original series: 'considerable numbers']. Syntypes, ECUADOR: 1 ex., Loja Punzara, 7.viii.1905 (*F. Ohaus*); 1 ex., Loja Calvario, 4.viii.1905 (*F. Ohaus*); 1 ex., Loja (*F. Ohaus*); 2 ex., (*F. Ohaus*).
- onthochromus* (*Onthophagus*), 1913a : 460. LECTOTYPE ♂, BRAZIL: Rio Madeira, Madeira-Mamore R[ail] R[oad] Co. Camp 41 (*Mann & Baker*); here designated.
Paralectotype. BRAZIL: 1 ♀, same data as lectotype.
- orissanus* (*Onthophagus*), 1931b : 257. LECTOTYPE ♂, INDIA: 'E. Ind.'; here designated.
Paralectotypes. INDIA: 2 ♀, same data as lectotype; 1 ♂, Orissa, Barkul, 0–1000 ft, 1–3.viii.1914 (*Gravely*).
- paliceps* (*Onthophagus*), 1931b : 287 [original series: 2]. Holotype ♂, INDIA: 'Ind. bor'.
[The paratype was probably from the collection at FRI, Dehra Dun.]
- pantherinus* (*Caccobius*), 1931b : 154. LECTOTYPE ♂, PAKISTAN: Karachi; here designated.
Paralectotype. INDIA: 1 ♀, Punjab, Multon Div, Gazighat, ex cattle dung, 15.ii.1928 (*B. M. Bhatia*).
- paranense* (*Pedaridium*), 1932 : 224 [original series: 4]. Syntypes, BRAZIL: 4 ex., Parana, Castro.
- peninsularis* (*Cassolus*), 1907c : 437. LECTOTYPE ♂, WEST MALAYSIA: Perak (*Doherty*); here designated.
Paralectotypes. WEST MALAYSIA: 2 ♀, same data as lectotype; 1 ♂, Penang (*Lamb*).
- platalea* (*Onthophagus*), 1941 : 49. Holotype ♂, NEW GUINEA: Japen I., R. Manai-Undei, 500 ft, x.1938 (*L. E. Cheesman*).
- porcus* (*Onthophagus*), 1931b : 325. LECTOTYPE ♂, BANGLADESH: Chittagong H[ill] T[racts], Sitaphar R., 5–10.v.1925 (*C. F. C. Beeson*); here designated.
Paralectotypes. BANGLADESH: 2 ♂ (BMNH, London), 2 ♂ (FRI, Dehra Dun), same data as lectotype.
[The female specimen described by Arrow is missing.]
- prehensilis* (*Macropocopris*), 1920 : 436. Holotype ♂, AUSTRALIA: N. Queensland, Kuranda, 19.xi.1909 (*G. E. Bryant*).
Current valid name: *Onthophagus prehensilis* (Arrow) (Matthews, 1972, *Aust. J. Zool. Suppl.* 24 : 42).
- productus* (*Onthophagus*), 1907c : 423. LECTOTYPE ♂, INDIA: (*Capt. Boys*); here designated.
Paralectotypes. INDIA: 1 ♂; 1 ♂, 'Himalaya O.' (MNHN, Paris); 1 ♀, Sikkim, Chasseurs Indigènes, 1894 (*R. P. Bretandeau*) (MNHN, Paris).
- productus* (*Uroxys*), 1933a : 389. Holotype ♂, SOUTH AMERICA: 'Amer. aequinoct.'
- puncticollis* (*Panelus*), 1931b : 406. Holotype [sex unknown], SRI LANKA: Kandy, vi.1908 (*G. E. Bryant*).
Paratype. SRI LANKA: 1 ex., same data as holotype.
- quadridens* (*Pedaridium*), 1932 : 225. Holotype [sex unknown], ARGENTINA: Entre Rios, Santa Elena, 30.i.1912 (*G. E. Bryant*).
- rana* (*Onthophagus*), 1931b : 268. Holotype ♂, INDIA: Kodai Kanal (*T. V. Campbell*).
- ranunculus* (*Onthophagus*), 1913a : 461. LECTOTYPE ♂, BRAZIL: Natal (*W. H. Mann*); here designated.
Paralectotypes. BRAZIL: 1 ♂, same data as lectotype; 5 ♀, Ceara, Baturite Mts (*W. H. Mann*); 1 ♂, Para.
- refulgens* (*Onthophagus*), 1931b : 281. LECTOTYPE ♂, SRI LANKA: Nuwara Eliya, 31.vii.1924; here designated.
Paralectotypes. SRI LANKA: 1 ♂, 1 ♀, same data as lectotype; 1 ♀, Nuwara Eliya, 6234–8000 ft, 8–11.ii.1882 (*G. Lewis*); 2 ♂, 1 ♀, Ohiya, iv.1929. INDIA: 1 ♂, Kodai Kanal (*T. V. Campbell*); 1 ♂, Madura, Shembaganur; 1 ♀, as previous but 1904–5 (*P. de Breuil*).
[Specimens from SRI LANKA: Nuwara Eliya, viii and xii (*G. M. Henry*) missing.]
- regalis* (*Onthophagus*), 1907c : 431. LECTOTYPE ♂, SRI LANKA: here designated.
Paralectotype. SRI LANKA: 1 ♀, Yerbury.
[Specimen(s) from SRI LANKA: (*E. E. Green*) missing.]
- rhinocerus* (*Liatongus*), 1931b : 363. LECTOTYPE ♂, INDIA: Kurseong, 4700–5000 ft, 25.vi.1910 (*Annan-dale*); here designated.
Paralectotype. INDIA: 1 ♂ [not ♀], Himalaya, Simla.
- roberti* (*Pinotus*), 1904 : 250 [original series: 2 ♂, 8 ♀]. LECTOTYPE ♂, BRAZIL: Chapada, 2600 ft, xi.1902 (*A. Roberts*); here designated.
Paralectotypes. BRAZIL: 5 ♀, same data as lectotype ; 1 ♂, Para.
- rotundus* (*Pycnanelus*), 1931b : 412. Holotype ? ♂, INDIA: Madras.

rubripennis (*Onthophagus*), 1907c : 419. LECTOTYPE ♂, INDIA: Sikkim, environs de Kurseong (*R. P. de Bretandeu*); here designated.

Paralectotypes. INDIA: 1 ♂, 1 ♀ (BMNH, London), 2 ♀ (MNHN, Paris), same data as lectotype; 1 [sex unknown], Kurseong (*R. P. de Bretandeu*) (MNHN, Paris); 1 ♂, Sikkim.

rubripennis Arrow var. *subcristatus* (*Onthophagus*), see *subcristatus*.

ruficauda (*Onthophagus*), 1931b : 295. LECTOTYPE ♂, BURMA: Paungde (*G. Q. Corbett*); here designated.

Paralectotypes. BURMA: 1 ♂, same data as lectotype; 1 ♂, Toungoo (*G. Q. Corbett*); 1 ♀, Tharrawaddy (*G. Q. Corbett*); 3 ♀, Mandalay (*H. L. Andrewes*).

runicus (*Drepanocerus*), 1909b : 93. Holotype ♀, BURMA: Karen Mts, Asciiui Ghecu, 1400–1500 m, iii–iv.1888 (*L. Fea*).

Paratypes. BURMA: 1 ♂ (BMNH), 2 ♂, 1 ♀ (MCSN, Genoa), same data as holotype.

setosus (*Panelus*), 1931b : 406. Holotype [sex unknown], SRI LANKA: Kandy, vi.1905 (*G. E. Bryant*).

sindensis (*Gymnopleurus*), 1931b : 66. Holotype ♀, PAKISTAN: Karachi.

sladeni (*Canthidium*), 1904 : 249 [original series: 5]. LECTOTYPE ♂, BRAZIL: Chapada, 2600 ft, xi.1902 (*A. Robert*); here designated.

Paralectotypes. BRAZIL: 1 ♂, 2 ♀, same data as lectotype.

socialis (*Onthophagus*), 1931b : 325. LECTOTYPE ♂, INDIA: Nilgiri Hills (*H. L. Andrewes*); here designated.

Paralectotypes. INDIA: 12 ♂, 10 ♀, same data as lectotype; 1 ♂, Bombay, Belgaum Div., Tavargatti, ex dung, 31.x.1929 (*B. M. Bhatia*).

solidus (*Onthophagus*), 1931b : 265. Holotype ♂, INDIA: Kumaon, Haldwani Dist. (*H. G. Champion*).

Current valid name: *Onthophagus compactus* Arrow (1933b : 421).

sternalis (*Onthophagus*), 1931b : 222. LECTOTYPE ♂, INDIA: Berhampore; here designated.

Paralectotypes. INDIA: 1 ♂, 1 ♀, same data as lectotype; 1 ♂, 1 ♀, Fyzabad (*R. W. G. Hingston*).

[Specimens from INDIA: Murshidabad (*E. T. Atkinson*), Bihar, Pusa, vii (*G. Bainbridge-Fletcher*); Chapra (*Mackenzie*); Dehra Dun, x (*G. D. Pant*); Bombay, Surat, vii (*H. Maxwell Lefroy*) missing.]

stevensi (*Haroldius*), 1931b : 416. Holotype [sex unknown], INDIA: Gopaldhara, Darjeeling, 4720–6100 ft, 4.ix.1914 (*H. Stevens*).

stevensi (*Onthophagus laevis* Harold var.), 1931b : 172. LECTOTYPE ♂, INDIA: Sikkim, Gopaldhara, Rungbong Valley (*H. Stevens*); here designated.

Paralectotypes. INDIA: 4 ♂, 5 ♀, same data as lectotype.

striatus (*Delopleurus*), 1931b : 411. LECTOTYPE [sex unknown], INDIA: United Prov. Dehra Dun, 2000 ft, vii.1927 (*H. G. Champion*); here designated.

[This specimen has been designated lectotype because it is uncertain that it is unique.]

subcristatus (*Onthophagus rubripennis* Arrow var.), 1907c : 420. LECTOTYPE ♂, BURMA: N. Chin Hills; here designated.

Paralectotypes. INDIA: 1 ♀, Khasia Hills; 2 ♂, no locality label (*E. I. C[antor]*). BHUTAN: 1 ♂.

suillus (*Onthophagus*), 1931b : 194. LECTOTYPE ♂, INDIA: South Mysore (*H. L. Andrewes*); here designated.

Paralectotypes. INDIA: 1 ♂, 2 ♀, same data as lectotype.

surdus (*Copris*), 1931b : 132. LECTOTYPE ♂, INDIA: Haldwani, Chakrata, ex dung, 3.v.1930 (*B. M. Bhatia*); here designated.

Paralectotype. INDIA: 1 ♀, Kumaon, Tanakpur (*H. G. C[hampion]*).

symbioticus (*Macropocopris*), 1920 : 437. Lectotype ♂, AUSTRALIA: N. Queensland, off Wallaby near vent, vii.1919 (*Dr T. F. Illingworth*); designated [as holotype] by Matthews (1972, *Aust. J. Zool.* Suppl. 24 : 257).

Paralectotypes. AUSTRALIA: 13 ♂, 17 ♀, same data as lectotype.

Current valid name: *Onthophagus symbioticus* (Arrow) (Matthews, loc. cit.).

taprobanus (*Onthophagus*), 1931b : 299. LECTOTYPE ♂, SRI LANKA: Bogawantalawa, 4900–5200 ft, 28.ii–12.iii.1882 (*G. Lewis*); here designated.

Paralectotypes. SRI LANKA: 1 ♀, same data as lectotype; 1 ♀ Dikoya, 3800–4200 ft, 6.xii.1881–16.i.1882 (*G. Lewis*); 1 ♀ (*G. Lewis*).

- tarantula (Sisyphus)*, 1909b : 92 [original series: 2 ♂]. LECTOTYPE ♂, SRI LANKA; here designated.
Paralectotype. SRI LANKA: 1 ♂, Bogawantalawa, 4900–5200 ft, 21.iii–4.iv.1882 (*G. Lewis*).
- tarsius (Onthophagus)*, 1941 : 54. Holotype ♂, NEW GUINEA: Japen I., R. Manai-Undei, 500 ft, x.1938 (*L. E. Cheesman*).
- tibetanus (Onthophagus)*, 1907c : 428. LECTOTYPE ♂, CHINA: Tibet, Brahmapoutra Valley, Chaksam, 12 000 ft, vii.1904 (*H. J. Walton*); here designated.
Paralectotypes. CHINA: 2 ♂, 6 ♀, same data as lectotype; 4 ♂, 3 ♀, Gyangtse, 13 000 ft, vi.1904 (*H. J. Walton*).
- torticornis (Caccobius)*, 1931b : 144. LECTOTYPE ♂, INDIA: Dehra Dun, cut grass, 10.vii.1922 (*C. N. Chatterjee*); here designated.
Paralectotype. INDIA: 1 ♀, Dehra Dun, Nun Nadi, ex carrion, 17.vii.1922 (*Dr M. Cameron*).
[Specimen(s) from INDIA: Almora Prov., Kali Valley, 5000 ft, vii (*R. N. Parker*) missing.]
- triceratops (Onthophagus)*, 1913b : 195 [original series: 2 ♂]. LECTOTYPE ♂, INDIA; here designated.
[1 ♂ specimen from INDIA: NE. Assam, Sadiya, 23.xi.1911 (*Kemp*) missing.]
- tridenticeps (Chaeridium)*, 1913a : 459. Holotype ♂, BRAZIL: Madeira-Mamore Railroad camp 28 (*Mann & Baker*).
- trinitatis (Uroxys)*, 1933a : 391. LECTOTYPE ♂, TRINIDAD: iii.1902 (*G. E. Bryant*); here designated.
Paralectotypes. TRINIDAD: 2 ♂, 5 ♀, same data as lectotype; 2 ♂, 2 ♀, 1903 (*G. E. Bryant*).
- triste (Phacosoma)*, 1931b : 355 [original series: 2]. Holotype [sex unknown], INDIA: Nilgiri Hills (*H. L. Andrewes*).
Paratype. INDIA: 1 ex., same data as holotype.
- trochilus (Onthophagus)*, 1931b : 266. Holotype ♂, BURMA: Tenasserim, Victoria Point (*Doherty*).
- vincentiae (Uroxys)*, 1903 : 510 [original series: 2]. LECTOTYPE ♂, ST VINCENT: Cumberland (*H. H. Smith*); here designated.
Paralectotype. ST VINCENT: 1 ♀, same data as lectotype.
- viduus (Onthophagus)*, 1907c : 428. LECTOTYPE ♂, INDIA: S. India, only found in carcasses; here designated.
Paralectotypes. INDIA: 2 ♀, S. India; 7 ♂, 7 ♀, Nilgiri Hills; 3 ♂, 1 ♀, Nilgiri Hills (*H. L. Andrewes*); 1 ♂, 1 ♀, Nilgiri Hills (*G. F. Hampson*); 2 ♂, 2 ♀, Bangalore; 2 ♂, Trivandrum; 2 ♀, Malabar; 1 ♀, India.
- vulpinus (Onthophagus)*, 1931b : 262. LECTOTYPE ♂, BURMA: Momeit (*Doherty*); here designated.
Paralectotypes. BURMA: 1 ♂, 1 ♀, Patkai Mts (*Doherty*).
- vultur (Onthophagus)*, 1931b : 197. LECTOTYPE ♂, INDIA: Bombay, Igatpuri, 2000 ft, 20–30.vi.1904; here designated.
Paralectotype. INDIA: 1 ♀, Belgaum.
- yunnanus (Synapsis)*, 1933b : 428. LECTOTYPE ♂, CHINA: Yunnan, Tengyueh, 1909–10 (*J. C. Brown*); here designated.
Paralectotypes. CHINA: 3 ♂, 1 ♀, same data as lectotype; 2 ♂, 1 ♀, Haut Yunnan, Tali.
[Specimen(s) from CHINA: Chien Chuan Chou, 7700 ft, v (*J. W. Gregory*) missing.]
- zebra (Onthophagus)*, 1931b : 249. LECTOTYPE ♂, INDIA: Agra, Mhow (*Selous*); here designated.
Paralectotypes. INDIA: 1 ♂, 1 ♀, Belgaum, Bombay.

LUCANIDAE

- acutangulus (Dendroblox)*, 1935 : 122 [original series: 5]. LECTOTYPE ♂, NEW ZEALAND: S. Island, Greymouth (*Helms*); here designated.
Paralectotypes. NEW ZEALAND: 3 ♀, same data as lectotype.
Current valid name: *Dendroblox earlei* White (Holloway, 1961, *Bull. Dom. Mus. Wellington* 20 : 13).
- acutangulus (Figulus)*, 1935 : 120. Syntypes, VIETNAM: 6 ex., Hoa Binh (*A. de Cooman*).
- aratus (Figulus)*, 1935 : 119. Syntypes, INDIA: 1 ex., Nilgiri Hills (*H. L. Andrewes*); 2 ex., Hattikeri, under bark, 3.ii.1909 (*H. L. Andrewes*).
- auritus (Aegotypus)*, 1943 : 142 [original series: 3 ♂]. LECTOTYPE ♂, BORNEO: here designated.
Paralectotypes. BORNEO: 1 ♂, Kinabalu, 1904 (*Rolle*); 1 ♂, Kinabalu.

- auritus* (*Figulus*), 1927c : 63 [original series: 4]. Syntypes, WESTERN SAMOA: 2 ex., Apia, vi.–ix.1916 (*Dr H. Swale*); 1 ex., as previous but vi.1917; 1 ex., as previous but no date.
Current valid name: *Figulus samoanus* Kriesche (*Arrow*, 1935 : 119).
- caeca* (*Vinsonella*), 1940 : 93 [original series: 12]. LECTOTYPE ♂, MAURITIUS: Mt Cocotte, 26.xi.1938 (*J. Vinsom*), here designated.
Paralectotypes. MAURITIUS: 2 ♂ (BMNH, London), 1 ♀ (MNHN, Paris) same data as lectotype.
[It is possible that there is one more male paralectotype in MNHN, Paris, but it was not possible to check at the time that this catalogue was compiled.]
- carolinensis* (*Dorcus*), 1939a : 84. LECTOTYPE ♂, CAROLINE ISLANDS: Ponape I., Kolonie, 9.iii.1936 (*Z. Ono*), here designated.
Paralectotypes. CAROLINE ISLANDS: 1 ♂, same data as lectotype but 2.ii.1936 (BPBM, Honolulu); 1 ♀, Ponape I., 29.ii.1936 (*Z. Ono*) (BPBM, Honolulu); 1 ♂, Ponape I., 6.iii.1936 (*Z. Ono*); 1 ♂, 1 ♀, Ponape I., Tamataman-Sakir [not Yamataman], 20.iii.1936 (*S. Otomo*); 1 ♂, Palao I., 8.iv.1936 (*Z. Ono*).
- cheesmani* (*Figulus*), 1938 : 61. Holotype [sex unknown], NEW GUINEA: Papua, Kokoda, 1200 ft, viii.1933 (*L. E. Cheesman*).
- concatenatus* (*Figulus*), 1938 : 59. Holotype [sex unknown], BORNEO: W. Sarawak, Mt Matang, 1000 ft, 3.xi.1914 (*G. E. Bryant*).
- coomani* (*Figulus*), 1935 : 120. Syntypes, VIETNAM: 2 ex., (BMNH, London), 1 ex., (MNHN, Paris), Backau, 1907–8 (*P. Lemée*); 7 ex., (BMNH, London), 1 ex., (MNHN, Paris), Hoa Binh (*A. de Cooman*).
- delicatus* (*Aegus*), 1943 : 141 [original series: 2 ♂]. LECTOTYPE ♂, WEST MALAYSIA: Perak (*Doherty*); here designated.
Paralectotype. WEST MALAYSIA: 1 ♂, same data as lectotype.
- dublonensis* (*Dorcus*), 1939b : 580. Holotype ♂, CAROLINE ISLANDS: Truk Islands, Dublon I., 23.xii.1935 (*Z. Ono*).
Paratype. CAROLINE ISLANDS: 1 ♀, Truk Islands, Dublon I., 5.i.1936 (*Z. Ono*).
- elongatus* (*Penichrolucanus*), 1935 : 122. Holotype ♂, WEST MALAYSIA: Selangor, Kuala Lumpur, Gombak Valley, 13.x.1921 (*H. M. Pendlebury*).
- frater* (*Aegus*), 1935 : 114. Holotype ♂, MOLUCCAS: Halmahera, Gamkonora, 1200 m, iv.1931 (*G. Heinrich*).
- furcifer* (*Lucanus*) 1949 : 46. LECTOTYPE ♂, CHINA: Yunnan; here designated.
Paralectotypes. CHINA: 1 ♂, 1 ♀, same data as lectotype; 1 ♂, 1 ♀, Szechuan, ouy Sy, 1911 (*R. P. Mombelg*). INDIA: 1 ♂, Sikkim, Lachen Lochung, viii (MNHN, Paris).
[A lectotype has been designated because although *Arrow* says that the type is from Yunnan, no specimen was so labelled.]
- henryi* (*Dorcus*), 1935 : 110. Holotype ♂, SRI LANKA: Trincomali Dist., Pulmoddai, 10.viii.1934 (*G. M. Henry*).
- histrion* (*Dorcus*), 1935 : 109. LECTOTYPE ♂, INDIA: Kumali Hill, 29.ii.1916 (*K. Govindaraj*); here designated.
Paralectotype. INDIA: 1 ♂, Coorg, Periambadi Ghat, 28.v.1917 (*T. R. Rao*).
- humilis* (*Dorcus*), 1935 : 111 [original series: 7]. LECTOTYPE ♂, INDIA: Sikkim, Gopaldhara, Rungbong Valley, 1911 (*H. Stevens*); here designated.
Paralectotypes. INDIA: 1 ♀, Sikkim, Gopaldhara, Rungbong Valley, Darjeeling, 1911 (*W. K. Webb*). BHUTAN: 1 ♀, Pedong, 1899 (*L. Durel*); 1 ♂ (BMNH, London), 1 ♂, 1 ♀ (MNHN, Paris), same as previous but 1913.
- immundus* (*Dorcus*), 1938 : 56 [original series: 3 ♂, 1 ♀]. Holotype ♂, INDIA: Coimbatore Dist., Camp Valparai, 3500 ft, 1937.
Paratypes. INDIA: 1 ♂ (BMNH, London), 1 ♂ (MNHN, Paris), same data as holotype.
[1 ♀, same data as holotype (MNHN, Paris) missing.]
- leverii* (*Penichrolucanus*), 1938 : 61 [original series: 3]. Syntypes, SOLOMON ISLANDS: 1 ex., Mamowa, rotten wood, xi.1931 (*R. A. Lever*); 2 ex., as previous but Guadalcanal, Mamawa.
- marginatus* (*Aegotypus*), 1935 : 115. Holotype ♀, BORNEO: ex. coll Parry.
- nageli* (*Dorcus*), 1935 : 112. Holotype ♂, INDIA: Assam (*P. Nagel*).

- nicobaricus (Penichrolucanus)*, 1935 : 123. Holotype [sex unknown], NICOBAR ISLANDS: (MNHN, Paris).
- oberthuri (Torynognathus)*, 1935 : 116. LECTOTYPE ♂, SUMATRA: Semangoes Forest (*J. Bouchard*); here designated.
- Paralectotypes. SUMATRA: 1 ♂, 3 ♀, 1 [sex unknown, head missing], (BMNH, London), 24 [sex unknown] (MNHN, Paris), 2 [sex unknown] (Coll. M. Bomans), same data as lectotype.
- reticulatus (Cardanus)*, 1943 : 140. Holotype [sex unknown], SUMATRA: Sungei Kumbang, Korinchi, 4500 ft, iv.1914.
- rhodesianus (Nigidius)*, 1935 : 119. Syntypes, RHODESIA: 4 ex. (BMNH, London), 1 ex. (MNHN, Paris), Salisbury (*Marshall*); 1 ex., Mashonaland, Salisbury, xi.1900 (*G. A. K. Marshall*); 1 ex., as previous but iii.1901; 1 ex., Kashitu, N. of Broken Hill, i.1905 (*H. C. Dollman*); 1 ex., as previous but ii.1905.
- Current valid name: *Nigidius rhodesianus* Peringuey (Arrow, 1938 : 53).
- scorpio (Platyfigulus)*, 1935 : 117. Holotype ♂, locality unknown [‘The unique specimen, which has generously been presented to the British Museum by the authorities of the Colombo Museum, is of unknown origin, but must be assumed to be a native of Ceylon’, Arrow (loc. cit.)].
- serratus (Figulus)*, 1938 : 60 [original series: 3]. Syntypes, BORNEO: 1 ex., Sarawak, Retuh, 14.v.1914 (*G. E. Bryant*); 1 ex., Sarawak, Tabehang, 12.v.1914 (*G. E. Bryant*).
- sumatrensis (Penichrolucanus)*, 1935 : 124. Holotype [sex unknown], SUMATRA: Palembang (MNHN, Paris).
- swalei (Aegus)*, 1927c : 61 [original series: 2]. LECTOTYPE ♂, WESTERN SAMOA: Apia, vi.–ix.1916 (*Dr H. Swale*); here designated.
- Paralectotype. SAMOA: 1 ♀ (*Dr H. Swale*).
- [The ♀ paralectotype is 21 mm long, not 11 mm.]
- tutuilensis (Aegus)*, 1927c : 62 [original series: 3]. LECTOTYPE ♂, AMERICAN SAMOA: Tutuila, Leone Road, 9.vii.1923 (*Swezey & Wilder*); here designated (BPBM, Honolulu).
- Paralectotypes. AMERICAN SAMOA: 1 ♂ (BMNH, London), 1 ♂ (BPBM, Honolulu), Tutuila, 18.xii. (*H. C. Kellers*).
- upoluensis (Aegus)*, 1927c : 60. LECTOTYPE ♂, ‘SAMOA’: Navigator Is.; here designated.
- Paralectotypes. ‘SAMOA’: 1 ♂ (*S. J. Whitmee*) [collector from BMNH Coleoptera accessions register]. WALLIS ISLANDS: 1 ♀. WESTERN SAMOA: 1 ♂, Lotopa, 29.iv.1917 (*H. Swale*); 1 ♂, as previous but 1.iii.1917; 1 ♂, Apia, vi.–ix.1916 (*H. Swale*); 1 ♂, ‘Samoa’, 20.v.1917 (*H. Swale*); 1 ♂, as previous but no date.
- [*Aegus upoluensis* was proposed by Arrow as a ‘nom. n.’ for *Alcinus dilatatus* Fairmaire sensu Waterhouse (*Trans. ent. Soc. Lond.* 1875 : 163). Waterhouse’s description was based on a misidentification and Arrow’s note is, therefore, a valid species description.
- The lectotype and the specimen collected by Whitmee are the two specimens described by Waterhouse and, although they are not actually mentioned in Arrow’s description, it is inferred that he has seen them. Also, the only identification label on the whole syntype series is Arrow’s label ‘Aegus upoluensis Arrow, Type’ on the major male described by Waterhouse. This specimen is therefore designated lectotype.]
- ursulus (Dorcus)*, 1938 : 55. Holotype ♂, BHUTAN: Pedong, 1913.x. (*L. Durel*).
- Paratypes. [1 ♂, 1 ♀ in Oberthür Collection (MNHN, Paris) missing.]
- variolosus (Cardanus)*, 1935 : 121 [original series: 2]. Holotype [sex unknown], THAILAND: (*Bates*).
- Paratype. INDIA: 1 ex., Assam, Rotung, 1400 ft, ex rotten wood, 23.xii.1911 (*S. W. Kemp*) (ZSI, Calcutta).
- verniscatus (Dorcus)*, 1938 : 58. Holotype ♂, INDIA: Assam, Shillong District, Oberthür Collection (MNHN, Paris) [missing].
- wardi (Dorcus)*, 1943 : 136. LECTOTYPE ♂, CHINA: SE. Tibet, Zayul 1000–1200 ft, vi & vii.1935 (*R. J. H. Kaulback*); here designated.
- Paralectotypes. CHINA: 1 ♀, SE. Tibet, Zayul, Di Chu Valley, 11 000 ft, 23.viii.1933 (*F. Kingdon-Ward & R. J. H. Kaulback*). BURMA: 1 ♀, Seinghku Valley, 28°9’ N, 97°25’ E, 6.vi.1926 (*F. Kingdon-Ward*).

PASSALIDAE

- affinis (Eumelosomus)*, 1907a : 465. Syntypes. UGANDA: 4 ex., E. Ruwenzori, 600–1200 ft, 1906 (*Hon. G. R. Legge & A. F. R. Wollaston*).

- antillarum* (*Neleides*), 1907a : 452. Syntypes. GRENADA: 3 ex., Chantilly Estate (windward side) (*H. H. Smith*); 2 ex., Grand Étang (windward side), 1900 ft (*H. H. Smith*); 3 ex., Windsor (*H. H. Smith*); 1 ex., Windsor Estate (windward), 500 ft, 28.iii, wooded ravine, under a rotten log. Found at same place and are probably of the same species [then in different handwriting], i.e. as larvae.
- archidona* (*Petrejus*), 1907a : 465. Holotype [sex unknown], ECUADOR: Archidona.
- borealis* (*Chilomazus*), 1907a : 467. Holotype [sex unknown], INDIA: Assam, Nagas (*Doherty*).
- centralis* (*Tetraracus*), 1907a : 458 [original series: 2]. Syntypes, COSTA RICA: 2 ex., Volcan de Barba 1600 m (*P. Biolley*).
- congoensis* (*Didymus*), 1907a : 463. Syntypes, ANGOLA: 4 ex., San Salvador. ZAIRE: 2 ex., R. Congo, Mayanda.
- crassus* (*Didymus*), 1907a : 465. Holotype, UGANDA: E. Ruwenzori, 6000–13 000 ft, 1906 (*Hon. G. Legge & A. F. R. Wollaston*).
- curvilineatus* (*Didymus*), 1907a : 462. Syntypes, UGANDA: 1 ex., Msozi, 4300 ft (*Delme Ratcliffe*); 2 ex., Msozi, ii.1903 (*Delme Radcliffe*). UGANDA: 1 ex., Kavirondo.
- isthmicus* (*Veturius*), 1907a : 453. Syntypes, COSTA RICA: 1 ex., PANAMA: 1 ex., Bugaba (*Champion*).
- laevisternus* (*Didymus*), 1907a : 463. Syntypes, KENYA: 5 ex., Kikuyu.
- nasutus* (*Eumelus*), 1907a : 459. Syntypes, ECUADOR: 1 ex., Cachabe, low c[amp ?], xi.1896 (*Rosenberg*); 2 ex., 1882–3 (*Siemradski*); 1 ex., as previous, no date.
[Specimens collected by Siemradski (MNHN, Paris) missing.]
- peruvianus* (*Petrejus*), 1907a : 456. Syntypes, PERU: 4 ex.
- peruvianus* (*Veturius*), 1907a : 455. Syntypes, PERU, 2 ex., Marcapata R. (*J. Kalinowski*); 1 ex., Peru.
- platyleura* (*Erionomus*), 1907a : 461. Syntypes, KENYA: 6 ex., Kavirondo.
- pulchellus* (*Leptaulacides*), 1907a : 466. Holotype [sex unknown], NEW GUINEA: Ekeikei, iv.1900 (*Pratt*).
- punctatostratus* (*Veturius*), 1907a : 454. Syntypes, GUYANA: 5 ex., Demarara, Georgetown, 1879 (*W. Harper*).
- ruwenzoricus* (*Didymus*), 1907a : 464. Syntypes, UGANDA: 6 ex., E. Ruwenzori, 6000–13 000 ft, 1906 (*Hon. G. Legge & A. F. R. Wollaston*).
- solidus* (*Triaenurgus*), 1907a : 452 [original series: 2]. Syntypes, GUATEMALA: 2 ex., Quezaetenango Chuipache (*Richardson*).
- spinus* (*Petrejus*), 1907a : 457 [original series: 4]. Syntypes, ECUADOR: 4 ex., Cachabe, Low C[amp ?], 1896 (*Rosenberg*).

TROGIDAE

- acutipes* (*Cloeotus*), 1903 : 519. Syntypes, BRAZIL: 9 ex., Rio de Janeiro (*Fry*); 3 ex., Brazil. COSTA RICA: 2 ex., Irazu, 600–700 ft (*H. Rogers*).
- birmanicus* (*Trox*), 1927b : 467. LECTOTYPE ♂, BURMA: Prome; here designated.
Paralectotypes. BURMA: 1 ex., Pakokku, 180 ft, ix.1915 (*Miss Molesworth*); 1 ex., Burma; 1 ex., Minhla, 1881 (*Comotto*) (MCSN, Genoa).
[Specimen(s) from CAMBODIA: Kompong Kedey, v (*R. V. de Salvaza*) missing.]
[The statement 'type (♂) in coll. British Museum' by Haaf (1954, *Ent. Arb. Mus. Georg Frey* 5 : 389) is incorrect. Although labelled as 'type' by Arrow, the specimen was not designated as the holotype by him. It is this specimen which has been selected as the lectotype.]
- bugabensis* (*Cloeotus*), 1903 : 519 [original series: 2]. Syntypes, PANAMA: 2 ex., Bugaba, 800–1500 ft (*Champion*). [One of these syntypes is also a syntype of *Cloeotus viridipennis* Bates (Arrow, loc. cit.).]
- crassicollis* (*Cloeotus*), 1093 : 518 [original series: 2]. Syntypes, ST VINCENT: 1 ex., Forest Morne a Garon, 1500 ft, in rotten wood, 27.x; 1 ex., (*H. H. Smith*).
- expansus* (*Trox*), 1900 : 22. Holotype, SOMALI REPUBLIC: central & east Somaliland, 5.vi.–29.x.1897 (*C. A. V. Peel*).
- fryi* (*Cryptogenius*), 1909c : 501. Holotype, BRAZIL: Rio de Janeiro (*Fry*).
- lobicollis* (*Trox*), 1927b : 466. Syntypes, BURMA: 5 ex. (BMNH, London) 3 ex. (IP, Eberswalde), 2 ex. (MCSN, Genoa) Tenasserim, Moulmein, v.1887 (*Fea*); 1 ex., Burma.
[Specimens from BURMA: Rangoon, vi and x (*Fea*) missing.]

- mollis* (*Trox*), 1927b : 468. Syntypes, BORNEO: 1 ex., Borneo; 1 ex., Medan (*L. Fulmek*) (IP, Eberswalde); SUMATRA: 1 ex., Palembang, 1900 (*J. Schmitz*).
[Specimen(s) from WEST MALAYSIA: Selangor, Kuala Lumpur, viii. (*H. M. Pendlebury*) missing.]
- rufopiceus* (*Cloeotus*), 1903 : 517. Syntypes, ST VINCENT: 2 ex., (*H. H. Smith*); GRENADA: 1 ex., Grand Etang (windward side), 1900 ft (*H. H. Smith*).
- testudo* (*Trox*), 1927b : 466. LECTOTYPE ♂, PAKISTAN: Karachi; here designated.
Paralectotypes. PAKISTAN: 2 ex., same data as lectotype; 1 ex., 'Ind. bor.'.
[The statement '♂-Typus in coll. British Museum, London' by Haaf, (1954, *Ent. Arb. Mus. Georg Frey* 5 : 365) is incorrect. Although labelled as 'Type' by Arrow, the specimen was not designated as the holotype by him. It is this specimen which has been selected as the lectotype.]

HYBOSORIDAE

- acuticollis* (*Phaeochroops*), 1907c : 436. Holotype, BORNEO: Kinabalu.
- amplus* (*Phaeochrous*), 1909c : 499. LECTOTYPE ♂, CAMEROUN: Mundame (*R. Rohde*); here designated.
Paralectotypes. CAMEROUN: 1 ♂, 1 ♀ (BMNH, London), 6 ♂, 1 ♀ (IP, Eberswalde), same data as lectotype.
- arabicus* (*Phaeochrous*), 1909c : 497. LECTOTYPE ♂, YEMEN: (*Millingen*); here designated.
Paralectotypes. YEMEN: 6 ♂, 1 ♀, same data as lectotype.
- batuensis* (*Phaeochroops*), 1909c : 495. Syntypes, SULAWESI: 6 ex. (BMNH, London), 1 ex. (MCSN, Genoa), Batu I., 1896-7 (*H. Raap*).
- camerunensis* (*Phaeochrous*), 1909c : 499. LECTOTYPE ♂, CAMEROUN: Mundame (*R. Rohde*); here designated.
Paralectotypes. CAMEROUN: 1 ♂, 1 ♀ (BMNH, London), 5 ♂, 4 ♀ (IP, Eberswalde), same data as lectotype.
- cinereicollis* (*Phaeochridius*), 1942 : 924. LECTOTYPE ♂, BORNEO: Sarawak, foot of Mt Dulit, junction of rivers Tinjar & Lejok, 2.x.1932, trap 2, goat (*B. M. Hobby & A. W. Moore*); here designated.
Paralectotypes. BORNEO: 2 ♂, same data as lectotype; 1 ♂, same data as lectotype but 1.x.1932; 1 ♂, same data as lectotype but 20.ix.1932, trap 1, fish; 2 ♂, same data as lectotype but 22.ix.1932, trap 1, fish; 1 ♂, same data as lectotype but 25.ix.1932, trap 1, fish; 1 ♂, same data as lectotype but 4.x.1932, trap 1, fish; 1 ♂, same data as lectotype but 4.ix.1932, old secondary forest; 1 ♂, same data as lectotype but 24.ix.1932, light-traps 6 & 7.
- crassicollis* (*Liparochrus*), 1925 : 329. LECTOTYPE [sex unknown], NEW GUINEA: Kani Mts (*Bennigsen*); here designated.
[Although the sex of the lectotype cannot be determined without dissection, it has been so designated because the syntypes from NEW GUINEA: Mamberano River, Pioneerbivak, vii-viii and xii-i (*W. C. van Heurn*) cannot be found in the collection of IP, Eberswalde.]
- dissimilis* (*Phaeochrous*), 1909c : 496. LECTOTYPE ♂, BURMA: Tenasserim, Moulmein, v.1887 (*Fea*); here designated.
Paralectotypes. BURMA: 1 ♂, 4 ♀ (BMNH, London), 4 ♂, 2 ♀ (MCSN, Genoa), 1 ♂, 1 ♀ (MHNH, Paris), 4 ♂, 2 ♀ (SMT, Dresden), same data as lectotype.
- dux* (*Liparochrus*), 1909c : 489. LECTOTYPE ♂, NEW GUINEA: Moroka, 1300 m, vii-xi.1892 (*Loria*); here designated.
Paralectotypes. NEW GUINEA: 1 ♂, same data as lectotype (MCSN, Genoa); 1 ♀, Paumotu R. ix-xii.1892 (*Loria*).
- exaratus* (*Chaetodus*), 1909c : 491. Syntypes, BRAZIL: 1 ex., Rio de Janeiro [Fry collection but doubtfully collected by Fry]; 1 ex., 'Adelops striatus mihi, L in Brasilia (*Dr. Sommer*)'.
- fumipennis* (*Coelodes*), 1909c : 491. LECTOTYPE ♂, BRAZIL: Ega; here designated.
Paralectotypes. BRAZIL: 1 ♀, same data as lectotype; 2 ♀, Amazon (*Bates*); 1 ♂, 2 ♀, Para.
- gigas* (*Phaeochroops*), 1907c : 436. Syntypes, BORNEO: 2 ex., Pengaron (*Doherty*).
[Specimens from WEST MALAYSIA: Perak (*Doherty*) missing.]
- indicus* (*Phaeochroops*), 1907c : 359 [original series: 3]. Syntypes, INDIA: 3 ex., Nigiri Hills (*H. L. Andrewes*).
- laetus* (*Microphaeochroops*), 1942 : 926. Holotype, BORNEO: Sarawak, Mt Dulit, 4000 ft, primitive moss forest, 26.x.1932 (*B. M. Hobby & A. W. Moore*).

- lugubris** (*Liparocheirus*), 1925 : 328. LECTOTYPE ♂, NEW GUINEA: Mamberamo R., Pioneerbivak, xii. 1920 (*W. C. van Heurn*); here designated.
Paralectotype. NEW GUINEA: 1 ♂, same data as lectotype (IP, Eberswalde).
[The female specimen cannot be traced.]
- mashunus** (*Phaeochrous*), 1909c : 498. LECTOTYPE ♂, RHODESIA: Mashonaland, Salisbury, xi.1900 (*G. A. K. Marshall*), here designated.
Paralectotypes. RHODESIA: 1 ♂, same data as lectotype but xii. 1904: 15 ♂, 10 ♀ (BMNH, London), 3 ♂, 2 ♀ (MCSN, Genoa), 3 (sex unknown) (MNHU, Berlin), 4 ♂, 1 ♀ (SMT, Dresden), same data as lectotype but no date; 1 ♀, Mashonaland. MOZAMBIQUE: 4 ♂, 1 ♀ Nyassa (*Thelwall*).
- mentaweiensis** (*Phaeochroops*), 1909c : 495. Syntypes, MENTAWAI ISLANDS (Indonesia): 2 ex. (BMNH, London), 3 ex. (MCSN, Genoa), Sipora, Sereinu, v–vi.1894 (*Modigliani*).
Current valid name: *Phaeochroops rattus* Arrow (Arrow, 1942 : 927).
- nanus** (*Phaeochrous*), 1942 : 924 [original series: 'over 50']. LECTOTYPE ♂, INDIA: Bihar, Pusa, 24.vi. 1924 (*Mukerjee*); here designated.
Paralectotypes. INDIA: 2 ♂, same data as lectotype; 1 ♀, same data as lectotype but 27.vi.1916 (*Fletcher*); 2 ♀, same data as lectotype but 1.viii.1916 (*D. Nandan*); 1 ♂, as previous but 3.viii.1916; 1 ♀, Bihar, Pusa, 18.vi.1916, at light (*H[rest illegible]*); 1 ♀, as previous but no date; 1 ♂, 6 ♀, Bengal, Chapra (*Mackenzie*).
- niasianus** (*Phaeochroops*), 1909c : 494. Syntypes, NIAS I. (Indonesia): 3 ex. (BMNH, London), 5 ex. (MCSN, Genoa), 1897–8 (*U. [not H.] Raap*).
- nigripennis** (*Coelodes*), 1903 : 516. LECTOTYPE ♂, ST VINCENT: leeward side (*H. H. Smith*); here designated.
- nitidus** (*Phaeochrous*), 1909c : 497. LECTOTYPE ♂, TANZANIA: Masai; here designated.
Paralectotypes. TANZANIA: 2 ♂, 2 ♀, same data as lectotype; 2 ♂, 2 ♀, Kilimanjaro; 1 ♀, 'Germ. E. Afr.' (*Rev. A. N. Wood*).
- obscurus** (*Hybochaetodus*), 1909c : 500 [original series: 2]. LECTOTYPE [sex unknown], PERU: Vilcanota; here designated.
[Although the sex of the lectotype cannot be determined without dissection, it has been so designated because the other syntype cannot be found in the collection of MNHU, Berlin.]
- opacicolis** (*Phaeochroops*), 1909c : 493. Syntypes, BURMA: 1 ex. (BMNH, London), 1 ex. (MCSN, Genoa), Tenasserim, Plapoo, iv.1887 (*Fea*); 1 ex., Tenasserim, Mt Moolevit, 1000–1700 m, iv.1887 (*Fea*) (MCSN, Genoa).
- pallidus** (*Phaeochrous*), 1909c : 496. LECTOTYPE ♂, INDIA: South Mysore (*H. L. Andrewes*); here designated.
Paralectotypes. INDIA: 5 ♂, same data as lectotype; 3 ♂, Nilgiri Hills (*G. F. Hampson*). SRI LANKA: 1 ♂, 1 ♀.
- peninsularis** (*Microphaeochroops*), 1942 : 925 [original series: 3]. Syntypes, WEST MALAYSIA: 3 ex., Perak, Jor Camp, 2000 ft, 25.viii.1922 (*E. Seimund*).
- peninsularis** (*Phaeochroops*), 1909c : 492 [original series: 1 ♂, 1 ♀]. LECTOTYPE ♂, WEST MALAYSIA: Perak (*Doherty*); here designated.
Paralectotype. WEST MALAYSIA: 1 ♀, same data as lectotype.
- punctatum** (*Dicraedon*), 1911 : 396 [original series: 3 ♀]. LECTOTYPE ♀, GUATEMALA: Zapote (*Champion*), here designated.
Paralectotypes. COLOMBIA: 1 ♀, Cali, ix–xii.1894 (*W. Rosenberg*); 1 ♀, same data as previous but 9–10.i.1894 (SMT, Dresden).
- punctipennis** (*Coelodes*), 1909c : 491. LECTOTYPE ♂, ECUADOR: Mirador; here designated.
Paralectotypes. ECUADOR: 1 ♂, same data as lectotype; 1 ♀, Canelos (*Buckley*); 1 ♀, Ecuador. PERU: 1 ♀, Amazon, Nauta.
- punctulatus** (*Phaeochroops*), 1942 : 926. Syntypes, BORNEO: 1 ex., Sarawak, Matang, 3–13.vii.1909 (*C. J. Brooks*); 1 ex., Sarawak, Mt Merinjak, 2000 ft, 26.v.1914 (*G. E. Bryant*); 1 ex., Sarawak, foot of Mt Dulit, junction of rivers Tinjar & Lejok, trap 1, fish, 25.ix.1932 (*B. M. Hobby & A. W. Moore*); 1 ex., Sarawak, Mt Kulalong, Long Manian, 8.xi.1932 (*B. M. Hobby & A. W. Moore*); 3 ex., Kinabalu.
- pusillus** (*Hapalonychus*), 1911 : 396 [original series: 2]. Holotype ♂, PARAGUAY.
Paratype. PARAGUAY: 1 ♂ (*Dr Bohls*) (SMT, Dresden).

- rattus* (*Phaeochroops*), 1909c : 494. Syntypes, SUMATRA: 2 ex. (BMNH, London), 4 ex. (MCSN, Genoa), Setinjak, 1800 ft, i.1898; 2 ex., Si-Rambé, xii.1890–iii.1991 (*E. Modigliani*).
- thomensis* (*Phaeochroops*), 1909c : 499. LECTOTYPE ♂, SÃO TOMÉ: Vista Alegre, 200–300 m, x.1900 (*L. Fea*); here designated.
Paralectotypes. SÃO TOMÉ: 1 ♂, 1 ♀, same data as lectotype (MCSN, Genoa).
- timidus* (*Liparoehrus*), 1909c : 490. LECTOTYPE ♂, AUSTRALIA: Alexandria (*W. Stalker*); here designated.
Paralectotypes. AUSTRALIA: 8 ex. (BMNH, London), 1 ex. (ANIC, Canberra), 1 ex. (MCSN, Genoa), same data as lectotype; 6 ex. (BMNH, London), 1 ex. (MCSN, Genoa), same data as lectotype but x.1905; 8 ex. (BMNH, London), 1 ex. (MNHU, Berlin), 2 ex. (MCSN, Genoa) same data as lectotype but 30.xii.1905; 1 ex., same data as lectotype but 25.ii.1906 (MCSN, Genoa); 14 ex. (BMNH, London), 1 ex. (ANIC, Canberra), same data as lectotype but 13–20.iii.1905; 2 ex., same data as lectotype but 20.iii.1906 (MNHU, Berlin).
Current valid name: *Liparoehrus dilatifrons* Blackburn (Arrow, 1925 : 328).
- uniformis* (*Phaeochridius*), 1925 : 330. LECTOTYPE ♂, BORNEO: Kinabalu; here designated.
Paralectotype. BORNEO: 1 ♀, same data as lectotype (IP, Eberswalde).
- vulpecula* (*Phaeochroops*), 1909c : 493. Syntypes, MENTAWAI ISLANDS (Indonesia): 2 ex. (BMNH, London), 3 ex. (MCSN, Genoa) Sipora, Sereinu, v–vi.1894 (*Modigliani*).

GEOTRUPIDAE

- bahiae* (*Athyreus*), 1913a : 463. Syntypes, BRAZIL: 2 ex., Bahia; 1 ex., Goyas Prov, Jatahy; 1 ex., Itaparica Is, 28.xii.1906 (*E. G. B. Meade-Waldo*).
- fissicollis* (*Athyreus*), 1913a : 462. Holotype [sex unknown], BRAZIL: Natal (*W. H. Mann*).
- loweri* Blackburn var. *laratinum* (*Bolboceras*), see *laratinum*.
- laratinum* (*Bolboceras loweri* Blackburn var.), 1916 : 493 [original series: 2]. Syntype [sex unknown], LARAT I. (Indonesia) (*F. Muir*).
- parcepunctatum* (*Bolboceras*), 1913a : 461. Holotype ♂, BRAZIL; Bahia.
Paratypes. BRAZIL: 1 ♂, 4 ♀, same data as holotype; 1 ♀, Ceara-Mirim, Rio Grande de Norte (*W. M. Mann*); 1 ♀, Independencia, Parahyba (*Mann & Heath*).

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